CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/TJ/W.No.07/CSR-05/330o/CEMENT/2017-18 Date: 10.05.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. T. Jayanth** No.152, 5th main 2nd block, 3rd stage, S G Halli, Basaveshwaranagara Bangalore- 560 079.
*** Name of Work**	:	Providing water pipe line in Ward no.07 Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/240/2016-17 Dated: 24.03.2017
*** Sample ID**	:	Cement
Sample Received on	:	08.05.2017
Period of Testing	:	09.05.2017 to 10.05.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P
Bangalore.

AE(W7)

VIDYARANI P.K.
Technical Manager

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Job No.: CTCE/BBMP/TJ/W.No.07/CSR-05/330o/SAND-Gradation/2017-18 10.05.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Jayanth** No.152, 5th main 2nd block, 3rd stage, S G Halli, Basaveshwaranagara Bangalore- 560
* Name of Work	:	Providing water pipe line in Ward no.07 Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/240/2016-17 Dated: 24.03.2017
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	08.05.2017
Date of Testing	:	10.05.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.50	90-100	90-100	90-100	95-100
2.36	81.30	60-95	75-100	85-100	95-100
1.18	59.50	30-70	55-90	75-100	90-100
600 Micron	34.80	15-34	35-59	60-79	80-100
300 Micron	16.30	5-20	8-30	12-40	15-50
150 Micron	4.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

Civil Tech Consultants & Engineers Bangalore

Note:

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Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P
Bangalore.

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Job No.: CTCE/BBMP/TJ/W.No.07/CSR-05/330o/AGG/GR/2017-18 10.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. T. Jayanth** No.152, 5th main 2nd block, 3rd stage, S G Halli, Basaveshwaranagara Bangalore-560 079.
*** Name of Work**	:	Providing water pipe line in Ward no.07 Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	AEE/GA/PR/28/2017-18 Dated: 27.05.2017
*** Sample ID**	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	08.05.2017
Date of Testing	:	10.05.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.08	95-100	85-100
20	32.00	30-70	0-20
10	11.50	10-35	0-5
4.75	2.46	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

Assistant Executive Engineer
Kodigehalli Sub Division
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Bangalore

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Job No.: CTCE/BBMP/TJ/W.No.07/CSR-05/330o/Cube/2017-18

14.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Jayanth** No.152, 5th main 2nd block, 3rd stage, S G Halli, Basaveshwaranagara
* Name of the work	:	Providing water pipe line in Ward no.07 Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/240/2016-17 Dated: 24.03.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.05.2017	14.06.2017	8.062	499.2	22.19
2	17.05.2017	14.06.2017	8.182	486.8	21.64
3	17.05.2017	14.06.2017	8.243	505.1	22.45

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Job No.: CTCE/BBMP/TJ/W.No.07/CSR-05/330o/Cube/2017-18 14.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Jayanth** No.152, 5th main 2nd block, 3rd stage, S G Halli, Basaveshwaranagara
* Name of the work	:	Providing water pipe line in Ward no.07 Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/240/2016-17 Dated: 24.03.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.05.2017	14.06.2017	8.268	482.5	21.44
2	17.05.2017	14.06.2017	8.147	523.4	23.26
3	17.05.2017	14.06.2017	8.365	493.5	21.93

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